APPPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SEC A.	TION I: BACKGROUND INFORMATION REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):					
B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: USACE - Galveston Regulatory Branch					
C.	The second state of the se					
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Dates: 09/10/2015 Field Determination. Date(s): 09/11/2015					
SEC A.	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.					
The	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) ne review area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:					
В.	CWA SECTION 404 DETERMINATION OF JURISDICTION.					
The	are Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]					
	1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands					
	 b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: Area D (RPW) is 100.24 linear feet, 0.044 acre. Wetlands: Area E (PEM wetland) is 0.053 acre Total 0.097 ac c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual 					
	Elevation of established OHWM (if known): Unknown					
	2. Non-regulated waters/wetlands (check if applicable): Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:					
"se	oxes cheeked below shall be supported by completing the appropriate sections in Section III below, or purposes of this forms an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least asonally" (e.g., typically 3 months). upporting documentation is presented in Section III.F.					

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SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

TNW

Identify TNW:

Summarize rationale supporting determination:

Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under Rapanos have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and attraditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody4 is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

Characteristics of non-TNWs that flow directly or indirectly into TNW

General Area Conditions:

Watershed size: approximately 484,480 acres, HUC 12040102

Drainage area: approximately 1,827 acres

Average annual rainfall: 48.99 inches (Tomball, TX Station. Summary of Monthly Normals, 1981-2010. NOAA

National Climatic Data Center)

Average annual snowfall: 0 inches (Tomball, TX Station. Summary of Monthly Normals, 1981-2010. NOAA National Climatic Data Center)

(ii) Physical Characteristics:

Relationship with TNW:

Tributary flows directly into TNW.

☑ Tributary flows through 2 tributaries before entering TNW.

Project waters are 18-19 river miles from TNW.

Project waters are 0.25 (or less) river miles from RPW.

Project waters are 12 aerial (straight) miles from TNW.

Project waters are 0.25 (or less) aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: N/A Pick List.

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town of Spring, TX. Pick List Tributary stream order, if known: Pick List Unknown General Tributary Characteristics (check all that apply): ☐ Natural Tributary is: Artificial (man-made). Explain: Appears to have been excavated in early 2010 according to historic aerials. Manipulated (man-altered). Explain: Tributary properties with respect to top of bank (estimate): Average width: 19 feet (Area D) Average depth: 1 foot (Area D) Average side slopes: 3:1 Primary tributary substrate composition (check all that apply): ☐ Concrete ⊠ Silts Sands ☐ Muck ☐ Gravel ☐ Cobbles ☐ Vegetation. Type/% cover: Bedrock Other. Explain: Tributary condition/stability [e.g., highly croding, sloughing banks]. Explain: Engineered banks are stable and fully vegetated with herbaceous vegetation. Presence of run/riffle/pool complexes. Explain: None observed Tributary geometry: Relatively straight Tributary gradient (approximate average slope): 2-3% (c) Flow: Tributary provides for: Perennial Flow Estimate average number of flow events in review area/year: 1 Describe flow regime: Water was present in channel (avg depth ~14 inches) during site visit. Appears to hold water and/or have flowing water year-round except in drought years. The water table appears to be located above the stream bed for most of the year and groundwater appears to be the primary source for stream flow. Flow within the engineered trapezoidal channel has scoured and lowered the stream bed of the original engineered channel. Other information on duration and volume: Drainage tributary was created to control/direct stormwater flow. Surface flow is: Discrete and Confined. Characteristics: Floodplain is confined within the engineered chanel, Overland flow enters the channel though numerous culverts. The surrounding area has been designed as a large stormwater detention basin complex. During flood events a concrete overflow structure (north of project area) directs excess water from the channel east into the detention basin complex. Subsurface flow: Likely groundwater influenced Explain findings: Groundwater influence is inferred based on the presence of an abutting PEM terrace wetland dominated by persistant OBL and FACW wetland herbaecuos vegetation with a consistent high water table, as evident by the similar elevation of the PEM wetland and OHWM height of the abutting perennial RPW.. Dye (or other) test performed: Tributary has (check all that apply): Bed and banks ○ OHWM⁶ (check all indicators that apply): the presence of litter and debris clear, natural line impressed on the bank destruction of terrestrial vegetation changes in the character of soil the presence of wrack line shelving vegetation matted down, bent, or absent sediment sorting ⊠ scour leaf litter disturbed or washed away multiple observed or predicted flow events sediment deposition abrupt change in plant community water staining Throws Burnay 5.5 Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into

Identify flow route to TNW⁵: Water flows south into Willow Creek, an RPW (HCFCD Drainage Unit No. M100-00-00), and then continues southeast into Spring Creek. Spring Creek becomes a TNW north of the

opensarily seven jurisd'A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows the delay show the opment or agricultural practices). Where there is a break in the OHWM that is a production of the option of t

		☐ other (list): ☐ Discontinuous OHWM. ⁷ Explain:	
	If fa	actors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by:	
	(iii)	Chemical Characteristics:	
		Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Water in channel was clear and at the OHWM depth during the site visit. Identify specific pollutants, if known:	
	(iv)	Biological Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Wetland fringe. Characteristics: PEM fringe 1-3 feet wide; dominated by Mexican primrose-willow (Ludwigia octovalvis). Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Although no fish were observed during the site visit, suitable habitat for warm-water fish species was present. Other environmentally-sensitive-species. Explain findings: Aquatic/wildlife diversity. Explain findings: One water moccasin (Agkistrodon piscivorus) was observed during the site visit. Area also supports suitable habitat for breeding and foraging amphibians and foraging shorebirds, waterfowl, and other migratory songbirds.	
2.	. Ch	aracteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW	
	(i)	Physical Characteristics: (a) General Wetland Characteristics: Properties: Wetland size: 0.053 acre (Area E) Wetland type. Explain: Area E is a palustrine emergent wetland with persistent vegetation (PEM1) Wetland quality. Explain: Area E is considered moderate in quality due to its ability to buffer a perennial stream from pollutants and thus improve water quality, recharge groundwater systems, stabilize shoreline soils, and support habitat for a variety of wildlife species. Project wetlands cross or serve as state boundaries. Explain: N/A.	
•		(b) General Flow Relationship with Non-TNW: Flow is Overland sheet flow and Subsurface flow Explain: Area E directly abuts Area D. Both Overland sheet flow and Subsurface flow connect Area E and Area D. Surface flow is: Overland sheet flow	
		Characteristics: Overland sheet flow connection will be present between Arca D (RPW) and Area E (PEM) during high flow.	
		Subsurface flow: Likely groundwater influenced. Explain findings: Based on the presence of persistant OBL and FACW wetland herbaccuos vegetation in the PEM wetland with a consistent high water table, as evident by the similar elevation of the PEM wetland and OHWM height of the abutting perennial RPW, this PEM is likely supported by groundwater. Dye (or other) test performed:	
; ;		(c) Wetland Adjacency Determination with Non-TNW: ☐ Directly abutting- abuts an RPW ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: ☐ Ecological connection. Explain: ☐ Separated by berm/barrier. Explain:	,
The state of the s	- - 1 - 3	(d) Proximity (Relationship) to TNW Project wetlands are 18-19 river miles from TNW. Project waters are 1 (or less) aerial (straight) miles from TNW. Flow is from: Wetland to RPW/to (Traditionally Navigable Water System of the continuous productions of the continuous prod):0 (5 83:45

Estimate approximate location of wetland as within the 50-100 year floodplain.

(II)	Chemical Characteristics;					
	Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general					
	watershed characteristics; etc.). Explain: Water was clear; no obvious chemical contamination was observed.					
	Identify specific pollutants, if known: NA					
	(iii) Biological Characteristics. Wetland supports (check all that apply):					
	Riparian buffer. Characteristics (type, average width):					
	☐ Vegetation type/percent cover. Explain: Area E was dominated by hydrophytic herbaceous vegetation.					
	Habitat for:					
	☐ Federally Listed species. Explain findings:					
	Fish/spawn areas. Explain findings:					
	Other environmentally-sensitive species. Explain findings:					
	Aquatic/wildlife diversity. Explain findings: Wetland has habitat use potential for amphibians and					
	reptiles and shorebirds and migratory songbirds.					
3.	Characteristics of all wetlands adjacent to the tributary (if any)					
	All wetland(s) being considered in the cumulative analysis: 1					
	For each wetland, specify the following:					
	Wetland Directly abuts? (Y/N) Size (in acres)					
	Area E Y 0.053 ac					

Summarize overall biological, chemical and physical functions being performed: Area E, a palustrine emergent wetland, functions to filter pollutants, trap sediments, stabilize stream banks, and intercept sheet flow from uplands prior to water entering abutting RPW (Area D) and continuing downstream to the TNW. Biologically, it also has potential to provide habitat for wetland dependent species of wildlife.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the Rapanos Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNMssaExplain findings of presence or absence of significant nexus below, 655sed of the tributary in briasa to RPW to Tradition in procombination with all of its adjacent wetlands, then go to Section III.D: resolvement or policies, intere-

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adjacent wetlands, then go to Section III.D: D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY): TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: ☐ TNWs: width (ft), Or, acres. linear feet ☐ Wetlands adjacent to TNWs: acres. RPWs that flow directly or indirectly into TNWs. Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Water was present in channel (avg depth ~14 inches) during site visit. Appears to hold water and/or have flowing water year-round except in drought years. The water table appears to be located above the stream bed for most of the year and groundwater appears to be the primary source for stream flow. Flow within the engineered trapezoidal channel has scoured and lowered the stream bcd of the original engineered channel. Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: Provide estimates for jurisdictional waters in the review area (check all that apply): ☐ Tributary waters: 100.24 linear feet 19 width (ft) Other non-wetland waters: acres Identify type(s) of waters: Non-RPWs8 that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C. Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2 Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: · i · Provide acreage estimates for jurisdictional wetlands in the review area: Area E is 0.053 acre Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C. Provide acreage estimates for jurisdictional wetlands in the review area: Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C. Provide estimates for jurisdictional wetlands in the review area: Impoundments of jurisdictional waters.9 As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or The Demonstrate that water is isolated with a nexus to commerce (see E below) a commerce (see E below) with all of its adjacent year to ... With all of its hajacent 5 _____

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its

⁸See Footnote #3.

² Tocomplete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

E.		GRADATION OR DI CLUDING ANY SUCH V which are or could be use from which fish or shellfu	ESTRUCTION OF WHI VATERS (CHECK ALL TF d by interstate or foreign trave sh are or could be taken and so d for industrial purposes by in	CH COULD IAT APPLY): 10 clers for recreation old in interstate or	foreign commerce.	
	Pro	vide estimates for jurisdict				
F.		If potential wetlands we Engineers Wetland Delir Review area included iso Prior to the Jan 200 solely on the "Migra Waters do not meet the "	neation Manual and/or approperlated waters with no substantion of Supreme Court decision in atory Bird Rule" (MBR). Significant Nexus" standard,	area, these areas riate Regional Sup al nexus to interst a "SWANCC," the where such a find	did not meet the criteria in the 1987 Corps of opplements. Interest (or foreign) commerce. In review area would have been regulated based ing is required for jurisdiction. Explain:	
	- }	Other: (explain, if not co	vered above): Explanation is	provided in Section	on II.B.2.	
	MB	R factors (i.e., presence o t professional judgment (c Non-wetland waters (i.e.	f migratory birds, presence of heck all that apply): , rivers, streams): linear cres.	endangered speci feet width (here the <u>sole</u> potential basis of jurisdiction is the ies, use of water for irrigated agriculture), using (ft).	
	Pro	vide acreage estimates for	non-jurisdictional waters in t	he review area tha	at do not meet the "Significant Nexus" standard	d,
		ere such a finding is requir	ed for jurisdiction (check all t	hat apply):	i. d	
	님	Non-wetland waters (i.e. Lakes/wetlands: a	, rivers, streams): linear cres.	feet, width	ε(π).	
	H		rs; acres. List type of aquatic	resource:.	# · ·	
		Wetlands: acres.	71 1		\$ 100 miles	
			_		•	
SEC		ON IV: DATA SOURCE	<u>s</u>		\$	
A.	SUP	PPORTING DATA. Date or checked and requested Maps, plans, plots or pla Data sheets prepared/sub Office concurs with a Office does not concur Data sheets prepared by Corps navigable waters'	appropriately reference source t submitted by or on behalf of omitted by or on behalf of the lata sheets/delineation report. or with data sheets/delineation the Corps:	ces below): the applicant/con applicant/consulta		1,
		USGS 8 and 12 digit	HUC maps,			
	\boxtimes		map(s). Cite scale & quad nar	ne:		
			Historical USG	S Topographic I	Maps	
		Date	Scale		Quadrangle Names	
		1916	1'' = 1,040'		mball and Rose Hill, Texas	
	igj.	1920	1'' = 1,040'	7.5' To	mball and Rose Hill, Texas	

The general to the case gory Carjoi to susserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general with the process described in the Corps/EPA Methodal HQ for general HQ

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Date	Scale	Quadrangle Names
1949	1'' = 1,040'	7.5' Tomball and Rose Hill, Texas
1962	1'' = 1,040'	7.5' Tomball and Rose Hill, Texas
1979	1'' = 1,040'	7.5' Tomball and Rose Hill, Texas
1995	1''=1,040'	7.5' Tomball and Rose Hill, Texas
2010	1'' = 1,040'	7.5' Tomball and Rose Hill, Texas
2013	1'' = 1,040'	7.5' Tomball and Rose Hill, Texas

\boxtimes	USDA Natural Resources Conservation Service Soil Survey	. Citation:	Soil Survey of Harris County, Texas - 1976.
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National wetlands inventory map(s). Cite name:Houston NE, SE, NW, SW, Texas - 1990-1991.

☐ State/Local wetland inventory map(s):

🛛 100-year Floodplain Elevation is: 159-160 ft AMSL (North American Vertical Datum of 1988)

Photographs: Aerial (Name & Date):

Historical	Aerial I	hotographs

Mistorical Actual I notographs					
Date	Scale	Source			
1952 B&W	1''=1,040'	USGS			
1957 B&W	1'' = 1,040'	USGS			
1969 B&W	1'' = 1,040'	WALLACE			
1972 B&W	1'' = 1,040'	USGS			
1978 B&W	1'' = 1,040'	TXDOT			
1989 B&W	1'' = 1,040'	TXDOT			
1995 IR	1'' = 1,040'	USGS			
2004 IR	1'' = 1,040'	USDA			
2009 TC	1'' = 1,040'	USDA			
2012 TC	1'' = 1,040'	USDA			
2014 TC	1'' = 1,040'	USDA			

B&W: Black and white photograph

IR: Infrared photograph

TC: True color photograph

Uther (Name & Date): .		-		
Previous determination(s). File no. and date	of respo	nse le	ette	r:
Applicable/supporting case law: .		- 17		
Applicable/supporting scientific literature:				
Other information (please specify): .			5	,

B. ADDITIONAL COMMENTS TO SUPPORT JD:

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550 JWW.

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FEMA/FIRM maps: Panel Numbers 48339C0675G, Effective Date 08/18/2014, and 48201C0230L, Effective Date 06/18/2007.

Table 1. Features Delineated on the Project Site

PEM= Palustrine Emergent Wetland RPW= Relatively Permanent Water	Area E	Area D	Area ID
mergent Wetland ermanent Water	PJD-PEM	PJD-RPW	Type
PJD= Potentially Jurisdictional	0.053	0.044	Approximate Area (acres)
Jurisdictional	NA	100.24	Length (feet)
	30.065549	30.065531	Latitude
	-95.630720	-95.63750	Longitude
	3328966	3328979	UTM Zone Northing (meters)
	246395	245741	Easting (meters)

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